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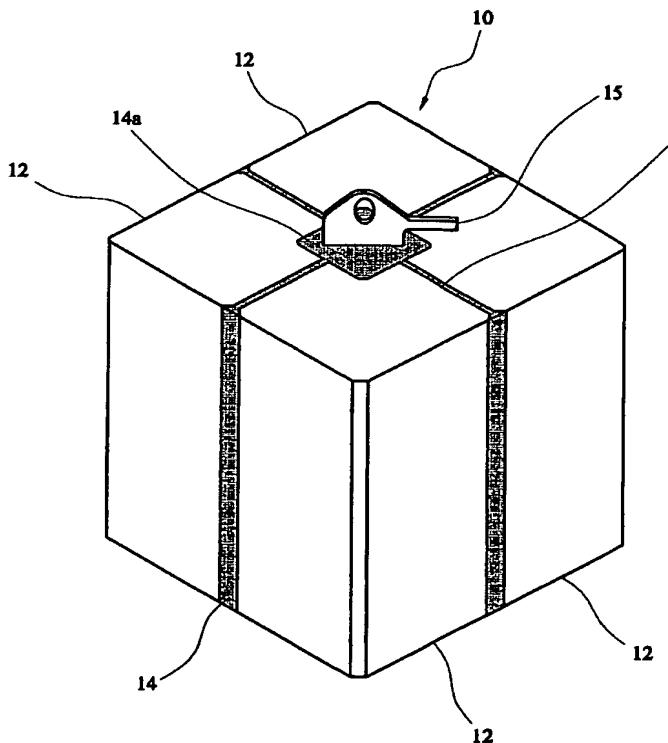
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[Continued on next page]

(54) Title: COMPOSITE SACRIFICIAL ANODES



(57) Abstract: The invention relates to composite sacrificial anodes, particularly but not exclusively, based on magnesium, and to methods for their production. The composite sacrificial anode (10) for immersion in a corrosive environment comprises a plurality of castings (12) of a sacrificial material each disposed around a corresponding electrical connector for attachment to a structure to be protected, at least a part of the surface of each segment (12) being protected from corrosion by the environment by being adjacent at least one other segment (12), wherein the castings are connected together electrically only via their electrical connectors. A method of producing a composite sacrificial anode for immersion in a corrosive environment is also described, the anode (10) having an electrical connection for attachment to the structure to be protected, which method comprises casting a plurality of segments (12) of a sacrificial material each in contact with a corresponding electrical connector, each connector being at least partly within its corresponding individual segment (12), and electrically connecting the segments together only via their electrical connectors.



ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 910 236 A (IOSSEL YURI ET AL) 8 June 1999 (1999-06-08)	1-7, 9-15,20, 22,23 8,16-19, 21
Y	column 6, line 57 -column 8, line 3 figures 7A,7E,7D,8 column 8, line 63 -column 9, line 14 column 8, line 38-62 --- -/-	

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>KIM J-G ET AL: "ADVANCED MG-MN-CA SACRIFICIAL ANODE MATERIALS FOR CATHODIC PROTECTION FORTSCHRITTLICHE GALVANISCHE MG-MN-CA-ANODENMATERIALIEN FUER DEN KATHODISCHEN SCHUTZ" MATERIALS AND CORROSION - WERKSTOFFE UND KORROSION, VCH VERLAGSGESELLSCHAFT, WEINHEIM, DE, vol. 52, no. 2, February 2001 (2001-02), pages 137-139, XP001039205 ISSN: 0947-5117 page 1, column 2, paragraph 3 table 1 ---</p> <p>JUAREZ-ISLAS J A ET AL: "IMPROVING THE EFFICIENCY OF MAGNESIUM SACRIFICIAL ANODES" JOM, MINERALS, METALS AND MATERIALS SOCIETY, WARRENDALE, US, vol. 45, no. 9, 1 September 1993 (1993-09-01), pages 42-44, XP000395120 ISSN: 1047-4838 abstract page 43, paragraph "Results and Analysis" ---</p>	8,21 16-19
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A	<p>US 5 294 396 A (DRESSEL DAVID C ET AL) 15 March 1994 (1994-03-15) cited in the application column 1, line 13-20 column 2, line 63 -column 3, line 11 -----</p>	1,5,9,10

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International Application No

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